

In the Specification:

On page 1, after the title delete the heading "Technical Field" and insert the following:

**RELATED APPLICATIONS**

This is a U.S. national stage of application No. PCT/DE2004/002136, filed on 24 September 2004.

On page 1, amend the first paragraph as follows:

The present application is closely related to the following applications:

2003P14657, 2003P14654, and 2003P14655 Attorney Docket Nos. 502902-228PUS, 502902-225PUS and 502902-227PUS.

On page 1, between lines 2 and 3, insert the following heading:

**FIELD OF THE INVENTION**

On page 1, amend the paragraph beginning on line 3 as follows:

The invention is based on a high-efficiency phosphor from ~~the~~ a class of ~~the~~ nitridosilicates ~~in accordance with the preamble of claim 1. These are~~ and, in particular, phosphors from the class of the oxynitridosilicates of Sr.

On page 1, replace the heading between lines 5 and 6 with the following heading:

**BACKGROUND OF THE INVENTION**

On page 2, amend the paragraph beginning on line 1 as follows:

It is an object of the present invention to provide a phosphor from a class of nitridosilicates ~~in accordance with the preamble of claim 1~~ with the highest possible efficiency. A further object is to provide a light source using this phosphor and a process for producing this efficient phosphor.

On page 2, delete the paragraph beginning on line 4 through line 6 in its entirety and insert the following:

These and other objects are attained in accordance with one aspect of the present invention directed to a high-efficiency phosphor from the class of the oxynitridosilicates having a cation M and the empirical formula  $M_{(1-c)}Si_2O_2N_2:D_c$ , where M contains Sr as a constituent and where D is a divalent doping comprising europium, wherein Sr alone or  $Sr_{(1-x-y)}Ba_yCa_x$  with  $x+y < 0.5$  is used for M, the oxynitridosilicate completely or predominantly comprising the high-temperature-stable modification HT.

Another aspect of the present invention is directed to a light source having a primary radiation source which emits radiation in the short-wave region of the optical spectral region in the wavelength range from 50 to 480 nm, this radiation being completely or partially converted into secondary radiation of a longer wavelength, in particular in the visible spectral region, by means of at least a first phosphor as described above.

Yet another aspect of the present invention is directed to a process for producing the high-efficiency phosphor described above, comprising the steps of: a) providing the starting products  $SiO_2$ ,  $Si_3N_4$ , remainder  $MCO_3$ , as well as a Eu precursor, in a

substantially stoichiometric ratio and mixing the products; and b) annealing the mixture at approximately 1300 to 1600°C, preferably 1450 to 1580°C.

On page 8, delete the heading "Figures" at the top of the page.

On page 8, delete lines 1 and 2 in their entirety.

On page 8, before line 3, insert the following heading:

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

On page 8, replace the heading between lines 13 and 14 with the following heading:

#### **DETAILED DESCRIPTION OF THE DRAWINGS**